



**WASTE STREAM TECHNOLOGY, INC.**


302 Grote Street  
Buffalo, NY 14207  
(716) 876-5290

**Analytical Data Report**  
Report Date: 09/14/07  
Work Order Number: 7H29024

**Prepared For**  
Mark Kamholz  
Tonawanda Coke Corporation  
3875 River Road  
Tonawanda, NY 14150  
Fax: (716) 876-4400  
Site: Liquid

Enclosed are the results of analyses for samples received by the laboratory on 08/29/07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

  
\_\_\_\_\_  
Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS  
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068



Waste Stream Technology Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Tonawanda Coke Corporation  
3875 River Road  
Tonawanda NY, 14150

Project: Env. Projects Soils/Oils  
Project Number: Liquid  
Project Manager: Mark Kamholz

Reported:  
09/14/07 16:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Liquid	7H29024-01	Oil	08/28/07 00:00	08/29/07 09:35

Tonawanda Coke Corporation  
3875 River Road  
Tonawanda NY, 14150

Project: Env. Projects Soils/Oils  
Project Number: Liquid  
Project Manager: Mark Kamholz

Reported:  
09/14/07 16:47

**Semivolatile Organic Compounds by EPA Method 8270C**  
**Waste Stream Technology Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Liquid (7H29024-01) Oil</b> Sampled: 08/28/07 00:00 Received: 08/29/07 09:35									
N-Nitrosodimethylamine	ND	40	mg/kg	10	AI70601	09/06/07	09/13/07	EPA 8270C	U
bis(2-chloroethyl)ether	ND	40	"	"	"	"	"	"	U
phenol	933	80	"	"	"	"	"	"	U
2-chlorophenol	ND	80	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	40	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	40	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	40	"	"	"	"	"	"	U
benzyl alcohol	ND	40	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	40	"	"	"	"	"	"	U
2-methylphenol	ND	40	"	"	"	"	"	"	U
hexachloroethane	ND	40	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	40	"	"	"	"	"	"	U
3 & 4-methylphenol	226	80	"	"	"	"	"	"	U
nitrobenzene	ND	40	"	"	"	"	"	"	U
isophorone	ND	40	"	"	"	"	"	"	U
2-nitrophenol	ND	80	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	80	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	40	"	"	"	"	"	"	U
benzoic acid	ND	200	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	80	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	40	"	"	"	"	"	"	U
naphthalene	6180	80	"	20	"	"	"	"	U
4-chloroaniline	ND	40	"	10	"	"	"	"	U
hexachlorobutadiene	ND	40	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	80	"	"	"	"	"	"	U
2-methylnaphthalene	1700	40	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	80	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	80	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	40	"	"	"	"	"	"	U
2-chloronaphthalene	ND	40	"	"	"	"	"	"	U
2-nitroaniline	ND	40	"	"	"	"	"	"	U
acenaphthylene	538	40	"	"	"	"	"	"	U
Dimethyl phthalate	ND	40	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	40	"	"	"	"	"	"	U
acenaphthene	279	40	"	"	"	"	"	"	U
3-nitroaniline	ND	40	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	80	"	"	"	"	"	"	U
dibenzofuran	421	40	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	40	"	"	"	"	"	"	U
4-nitrophenol	ND	80	"	"	"	"	"	"	U
fluorene	405	40	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	40	"	"	"	"	"	"	U

Waste Stream Technology Inc.

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Tonawanda Coke Corporation  
3875 River Road  
Tonawanda NY, 14150

Project: Env. Projects Soils/Oils  
Project Number: Liquid  
Project Manager: Mark Kamholz

Reported:  
09/14/07 16:47

**Semivolatile Organic Compounds by EPA Method 8270C**  
**Waste Stream Technology Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Liquid (7H29024-01) Oil</b> Sampled: 08/28/07 00:00 Received: 08/29/07 09:35									
Diethyl phthalate	ND	40	mg/kg	10	A170601	09/06/07	09/13/07	EPA 8270C	U
4-nitroaniline	ND	40	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	80	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	40	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	40	"	"	"	"	"	"	U
hexachlorobenzene	ND	40	"	"	"	"	"	"	U
pentachlorophenol	ND	80	"	"	"	"	"	"	U
phenanthrene	1240	40	"	"	"	"	"	"	U
anthracene	131	40	"	"	"	"	"	"	
carbazole	70	40	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	40	"	"	"	"	"	"	U
benzidine	ND	200	"	"	"	"	"	"	U
fluoranthene	531	40	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	40	"	"	"	"	"	"	U
pyrene	893	40	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	40	"	"	"	"	"	"	U
Benzo (a) anthracene	223	40	"	"	"	"	"	"	
chrysene	183	40	"	"	"	"	"	"	
bis(2-ethylhexyl)phthalate	ND	40	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	40	"	"	"	"	"	"	U
Benzo (b) fluoranthene	254	40	"	"	"	"	"	"	
Benzo (k) fluoranthene	118	40	"	"	"	"	"	"	
Benzo (a) pyrene	179	40	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	81	40	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	74	40	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		42.1 %	40-103		"	"	"	"	
Surrogate: Phenol-d6		66.0 %	43-108		"	"	"	"	
Surrogate: Nitrobenzene-d5		71.4 %	50-98		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.7 %	49-98		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		73.0 %	52-112		"	"	"	"	
Surrogate: Terphenyl-d14		88.7 %	43-108		"	"	"	"	

Waste Stream Technology Inc.

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3875 River Road  
Tonawanda NY, 14150

Project: Env. Projects Soils/Oils  
Project Number: Liquid  
Project Manager: Mark Kamholz

Reported:  
09/14/07 16:47

### Notes and Definitions

U Analyte included in the analysis, but not detected  
D This flag assigned to compounds identified in an analysis at a secondary dilution factor  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# CHAIN OF CUSTODY

REPORT TO:

Townsend Lake



Waste Stream Technology Inc.  
302 Grote Street, Buffalo, NY 14207  
(716) 876-5290 • FAX (716) 876-2412

PAGE 1 OF 1

OFFICE USE ONLY

GROUP # 7421024

DUE DATE

TURN AROUND TIME:

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED:  
YES ☐ NO ☒  
If yes please attach requirements

Is a QC Package required:  
YES ☐ NO ☒  
If yes please attach requirements.

CONTACT Mark Kamholz

PH. # ( )

FAX # ( )

BILL TO: Same

PO #

PROJECT DESCRIPTION

Liquid

SAMPLER SIGNATURE

Mark Kamholz

SAMPLE ID.

DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	ANALYSES TO BE PERFORMED	TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
8/38	01	✓	8270		Glass	01
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

REMARKS: We think this sample is a pure compound. Please identify. It has an odor and will burn.

RELINQUISHED BY: Mark L. Kamholz	DATE: 8/29/07	TIME: 9:35 A	RECEIVED BY: [Signature]	DATE: 8/31/07	TIME: 9:00 AM
RELINQUISHED BY:	DATE: 1/1	TIME:	RECEIVED BY:	DATE: 1/1	TIME:

# CHAIN OF CUSTODY

REPORT TO: Dr. Schuyler

**WASTE STREAM TECHNOLOGY**  
Waste Stream Technology Inc.  
302 Grote Street, Buffalo, NY 14207  
(716) 876-5290 • FAX (716) 876-2412

CONTACT: Alene  
PH. # ( ) 876-6222 ext 240  
FAX # ( )

BILL TO: Longwood coll

PO# Discharge monitor  
PROJECT DESCRIPTION  
Jeff Bahr  
SAMPLER SIGNATURE

OFFICE USE ONLY  
GROUP # 622010  
DUE DATE

TURN AROUND TIME:

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED:  
YES NO  
If yes please attach requirements.

Is a QC Package required:  
YES NO  
If yes please attach requirements

DW DRINKING WATER  
GW GROUND WATER  
SW SURFACE WATER  
WW WASTE WATER  
O OIL  
SL SLUDGE  
SO SOIL  
S SOLID  
W WIPE  
OTHER

## ANALYSES TO BE PERFORMED

DATE SAMPLED  
TIME OF SAMPLING  
SAMPLE TYPE  
TOTAL NO. OF CONTAINERS

SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	Boys	Total Halogens	TYPE OF CONTAINER/ COMMENTS	OFFICE USE ONLY WST. I.D.
1 Town Sewer	11/22/06	8:30am	WW	1	X		1 plastic bottle	01
2 B.D. OIL	" "	AM	OIL	1	X		GLASS BOTTLE	02
3								
4								
5								
6								
7								
8								
9								
10								

REMARKS:

RELINQUISHED BY: <u>Jeff Bahr</u>	DATE: 11/22/06	TIME: 8:30am	RECEIVED BY: <u>[Signature]</u>	DATE: 11/22/06	TIME: 9:55
RELINQUISHED BY: <u>[Signature]</u>	DATE: 11/22/06	TIME: 12:00	RECEIVED BY: <u>Joe G</u>	DATE: 11/22/06	TIME: 12:00





® **Microbac Laboratories, Inc.**

ERIE DIVISION  
 1962 WAGER ROAD  
 ERIE, PA 16509

(814) 825-8533 FAX (814)825-9254

MARK A MATROZZA, MANAGING DIRECTOR

http://www.microbac.com E-Mail: erie@microbac.com

STATE CERT ID.

25-067, 10121  
 C-PA-05

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
 WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**

WASTE STREAM TECHNOLOGY INC.  
 DAN VOLMER  
 302 GROTE STREET  
 BUFFALO, NY 14207

Date Reported 12/12/2006  
 Date Received 11/28/2006  
 Order Number 0611-02177  
 Invoice No. 9305  
 Cust # 023229

Permit No.  
 Cust P.O. 19512

SUBJECT: SAMPLE 6K22010-02 RCVD 11-28-06

TEST	METHOD	RESULT	ANALYSIS DATE	TIME	TECH	ACCRED.
001 SAMPLE 6K22010-02						
	Date Sampled: 11/22/2006		Time Sampled:			

TOTAL ORGANIC HALOGENS	SW846 9020	see below MG/KG	12/5/2006	14:21	OST
------------------------	------------	-----------------	-----------	-------	-----

THE TECH INITIALS "OST" (OUTSIDE TESTING) INDICATE THAT THE TOTAL HALOGENS ANALYSES WERE SUB-CONTRACTED TO MICROBAC, PITTSBURGH DIVISION.

TOTAL CHLORINE	ASTM D808/ASTM D512	437 MG/KG
TOTAL FLUORINE	ASTM D808/ASTM D512	20 MG/KG

*Mark A. Matrozza*  
 Mark A Matrozza  
 Managing Director

*Cheri A. Brolaski*  
 Cheri A Brolaski  
 Laboratory Director

Electronic Copy Sent to: WASTE STREAM TECHNOLOGY INC.

RECEIVED DEC 15 2006



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 NELAP accredited by PA, NY. Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials, air & emissions analytes

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ERIE, PA 16509

(814) 825-8533 FAX (814) 825-9254

MARK A MATROZZA, MANAGING DIRECTOR

http://www.microbac.com E-Mail: erie@microbac.com

STATE CERT ID.

25-067, 10121

C-PA-05

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS**CERTIFICATE OF ANALYSIS**

WASTE STREAM TECHNOLOGY INC.

DAN VOLMER

302 GROTE STREET

BUFFALO, NY 14207

Date Reported 12/12/2006

Date Received 11/28/2006

Order Number 0611-02177

Invoice No. 9305

Cust # 023229

Permit No.

Cust P.O. 19512

SUBJECT: SAMPLE 6K22010-02 RCVD 11-28-06

TEST	METHOD	RESULT	ANALYSIS		
			DATE	TIME	TECH ACCRED.

*All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted***Accred.**

- ⌘ This symbol at the end of the test line means the test analysis met the requirements of NELAC (PA ID 25-00067)
- ❖ This symbol at the end of the test line means the test analysis met the requirements of AIHA (ID 100386)
- ◆ This symbol at the end of the test line means the test analysis met the requirements of NY ELAP (NY ID 10121)

**ABBREVIATIONS:**

TNTC = Too Numerous To Count  
UG/L = Micrograms per Liter (PPB)  
UG/KG = Micrograms per Kilogram (PPB)  
MG/L = Milligrams per Liter (PPM)  
1000 UG = 1 MG  
Positive = Bacteria or target analyte detected

MG/KG = Milligram per Kilogram (PPM)  
CFU = Colony Forming Unit  
ND = Not detected at or below the reporting limit  
TIC = Tentatively Identified Compound  
"<" = less than (also see "ND")  
Negative = Bacteria or target analyte not detected

For any feedback concerning our services, please contact the Managing Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operating Officer, at rmorgan@microbac.com



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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

NELAP accredited by PA, NY. Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials, air & emissions analytes

MEMBER



TCC00024242

**Case Narrative: Tonawanda Coke #10050022**

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

**Comment(s):**

*Total Analysis:* The three samples for this project were prepared and analyzed on a Total basis for Volatiles, Semi-Volatiles, PCB Aroclors and Metals. The Total Analysis results are reported in "ug/kg" units for the Volatiles and Semi-Volatiles and in "mg/kg" units for the PCB Aroclors and Metals.

*Toxicity Characteristic Leaching Procedure (TCLP) Analysis:* The three samples for this project were prepared using the TCLP procedure. The extracts were digested and analyzed for the TC regulated Volatiles, Semi-Volatiles and Metals. The TCLP extract results were reported in "mg/L" units.

*VOC Analysis (TCLP):* Some of the VOC names used in our report are "alternate" names for the regulated compounds. The following table contains a list of the relevant compounds.

Regulatory Chemical Name as listed in the Federal Register	Alternate Chemical Name as used in our Reports
1,1-Dichloroethylene	1,1-Dichloroethene
Methyl Ethyl Ketone	2-Butanone
Trichloroethylene	Trichloroethene
Tetrachloroethylene	Tetrachloroethene

**Data Qualifier(s):**

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the standard reporting limits for each analyte requested except for the following analyte(s):

VOC Analysis (Total) – Due to sample matrix, i.e., oil, a significant dilution was required. The Laboratory's standard reporting limit for the VOC contaminants was raised in accordance with the dilution used.

SVOC Analysis (Total) – Due to sample matrix, i.e., oil, a significant dilution was required. The Laboratory's standard reporting limit for the SVOC contaminants was raised in accordance with the dilution used.

VOC Analysis (TCLP) – Due to sample matrix, i.e., oil, a significant dilution was required. The Laboratory's standard reporting limit for TCLP extracts was raised in accordance with the dilution used. The reporting limits for the three samples were above the TC criterion for several of the VOCs.

SVOC Analysis (TCLP) – Due to sample matrix, i.e., oil, a significant dilution was required. The Laboratory's standard reporting limit for TCLP extracts was raised in accordance with the dilution used. The reporting limits for the three samples were above the TC criterion for several of the SVOCs.

Method(s):

All methods that are NELAC accredited in the Laboratory are noted with "NELAC" at the end of the method reference.

- Ignitability Analysis: ASTM Method D93-80 (SOP C-23; Pensky-Martens Closed-Cup Method) (NELAC)
- TCLP Analysis (Semi-Volatiles and Metals):
  - Extraction: EPA SW-846 Method 1311 (TCLP Extraction) (NELAC)
  - Metals Analysis (TC Metals), EPA Method 200.7 (SOP C-109; ICP/AES Method) (NELAC)
  - Mercury Analysis, EPA Method 245.1 (SOP C-110; CVAAS Method) (NELAC)
  - Semi-Volatile Analysis, EPA Method 625 (SOP C-90; GC/MS Method) (NELAC)
  - Volatile Organic Compounds Analysis, EPA Method 624 (SOP C-89; Purge & Trap GC/MS Method) (NELAC)
- Total Analysis
  - Metals Analysis, EPA Method 200.7 (SOP C-109; ICP/AES Method) (NELAC)
  - Mercury Analysis, EPA Method 245.1 (SOP C-110; CVAAS Method) (NELAC)
  - Semi-Volatile Analysis, EPA Method 625 (SOP C-90; GC/MS Method) (NELAC)
  - PCB Aroclor Analysis, EPA Method 608 (SOP C-91; GC/ECD Method) (NELAC)
  - Volatile Organic Compounds Analysis, EPA Method 624 (SOP C-89; Purge & Trap GC/MS Method) (NELAC)

Approval: 

Date: 6-17-10





U.S. Environmental Protection Agency

Region 2 Laboratory  
2890 Woodbridge Avenue  
Edison, NJ 08837**Data Report: TONAWANDA COKE****Project Number: 10050022**

Program: D307

Project Leader: BOB MORRELL

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
R	THE PRESENCE OR ABSENCE OF THE ANALYTE CANNOT BE DETERMINED FROM THE DATA DUE TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED

Report Date: 6/16/2010 9:56AM

Page 1 of 16



## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01660

Field/Station ID: A

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
	IGNITABILITY	---	150U	deg F
	FREE LIQUID	Positive		

## Analysis Type: METALS TCLP ICP TCLP EXTRACT

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-22-4	SILVER, TCLP	---	0.47U	mg/L
7440-38-2	ARSENIC, TCLP	0.98		mg/L
7440-39-3	BARIUM, TCLP	---	9.4U	mg/L
7440-43-9	CADMIUM, TCLP	---	0.29U	mg/L
7440-47-3	CHROMIUM, TCLP	1.1		mg/L
7439-92-1	LEAD, TCLP	---	0.75U J	mg/L
7782-49-2	SELENIUM, TCLP	---	0.38U	mg/L

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
7439-97-6	MERCURY, TCLP	---	0.090U	mg/L

## Analysis Type: NVOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	---	100U	mg/L
106-46-7	1,4-DICHLOROBENZENE	---	100U	mg/L
95-48-7	2-METHYLPHENOL	---	100U	mg/L
13-19-77-3	3& 4-METHYLPHENOL	1,800		mg/L
67-72-1	HEXACHLOROETHANE	---	100U	mg/L
98-95-3	NITROBENZENE	---	100U	mg/L
87-68-3	HEXACHLOROBUTADIENE	---	100U	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	100U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	100U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	100U	mg/L
118-74-1	HEXACHLOROBENZENE	---	100U	mg/L
87-86-5	PENTACHLOROPHENOL	---	100U	mg/L

## Analysis Type: VOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	10.0U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	10.0U	mg/L
78-93-3	2-BUTANONE	---	10.0U	mg/L
67-66-3	CHLOROFORM	---	10.0U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	10.0U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	10.0U	mg/L
71-43-2	BENZENE	130		mg/L
79-01-6	TRICHLOROETHENE	---	10.0U	mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 2 of 16

Appendix C: NEIC RP1355R02

Page 4 of 18

EPA Region 2 Edison Laboratory Analytical Results

TCC-00218986





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01660

Field/Station ID: A

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: VOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
127-18-4	TETRACHLOROETHENE	---	10.0U	mg/L
108-90-7	CHLOROBENZENE	---	10.0U	mg/L

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
62-75-9	N- NITROSODIMETHYLAMINE	---	470,000U	ug/Kg
108-95-2	PHENOL	3,000,000		ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	470,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	470,000U	ug/Kg
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	---	470,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	470,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	470,000U	ug/Kg
98-95-3	NITROBENZENE	---	470,000U	ug/Kg
78-59-1	ISOPHORONE	---	470,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	470,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	470,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	470,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	470,000U	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	470,000U	ug/Kg
91-20-3	NAPHTHALENE	2,600,000		ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	470,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	470,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	470,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	470,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	470,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	470,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	470,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	470,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	470,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	940,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	470,000U	ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	470,000U	ug/Kg
86-73-7	FLUORENE	---	470,000U	ug/Kg
84-66-2	DIETHYLPHTHALATE	---	470,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	470,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	470,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	470,000U	ug/Kg
103-33-3	DIAZENE,DIPHENYL	---	470,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 3 of 16

Appendix C: NEIC RP1355R02

Page 5 of 18

EPA Region 2 Edison Laboratory Analytical Results

TCC-00218987





## Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01660

Field/Station ID: A  
Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	470,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	470,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	470,000U	ug/Kg
85-01-8	PHENANTHRENE	740,000		ug/Kg
120-12-7	ANTHRACENE	---	470,000U	ug/Kg
84-74-2	DI-N-BUTYLPHTHALATE	---	470,000U	ug/Kg
206-44-0	FLUORANTHENE	510,000		ug/Kg
92-87-5	BENZIDINE	---	470,000U	ug/Kg
129-00-0	PYRENE	---	470,000U	ug/Kg
85-68-7	BUTYLBENZYLPHTHALATE	---	470,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	---	470,000U	ug/Kg
91-94-1	3,3'- DICHLOROBENZIDINE	---	470,000U	ug/Kg
218-01-9	CHRYSENE	---	470,000U	ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	470,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	470,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	---	470,000U	ug/Kg
207-08-9	BENZO(K)FLUORANTHENE	---	470,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	470,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	470,000U	ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	470,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	470,000U	ug/Kg
	2,6-DIMETHYLPYRIDINE	1,500,000		ug/Kg

## Analysis Type: VOA TCL GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	99,000U	ug/Kg
75-00-3	CHLOROETHANE	---	99,000U	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	99,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	99,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	99,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	99,000U	ug/Kg
67-66-3	CHLOROFORM	---	99,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	99,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	99,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	99,000U	ug/Kg
71-43-2	BENZENE	1,200,000		ug/Kg
79-01-6	TRICHLOROETHENE	---	99,000U	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	99,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 4 of 16

Appendix C: NEIC RP1355R02

Page 6 of 18

EPA Region 2 Edison Laboratory Analytical Results

TCC-00218988





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01660

Field/Station ID: A

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: VOA TCL GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-27-4	BROMODICHLOROMETHANE	---	99,000U	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	99,000U	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	99,000U	ug/Kg
108-88-3	TOLUENE	660,000		ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	99,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	99,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	99,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	99,000U	ug/Kg
100-41-4	ETHYLBENZENE	130,000		ug/Kg
75-25-2	BROMOFORM	---	99,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	99,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	99,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	99,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	99,000U	ug/Kg
107-13-1	ACRYLONITRILE	---	99,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	99,000U	ug/Kg
74-83-9	BROMOMETHANE	---	99,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	99,000U	ug/Kg

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
7439-97-6	MERCURY	5.8		mg/Kg

## Analysis Type: PCBS GC TSCA OIL

CAS Number	Analyte Name	Result	Remark Codes	Units
12674-11-2	AROCLOR 1016	---	3.1U	mg/Kg
11104-28-2	AROCLOR 1221	---	6.3U	mg/Kg
11141-16-5	AROCLOR 1232	---	3.1U	mg/Kg
53469-21-9	AROCLOR 1242	---	3.1U	mg/Kg
12672-29-6	AROCLOR 1248	---	3.1U	mg/Kg
11097-69-1	AROCLOR 1254	---	3.1U	mg/Kg
11096-82-5	AROCLOR 1260	---	3.1U	mg/Kg
37324-23-5	AROCLOR 1262	---	3.1U	mg/Kg

## Analysis Type: METALS TAL ICP NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-22-4	SILVER	---	0.48U	mg/Kg
7429-90-5	ALUMINUM	28		mg/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 5 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01660

Field/Station ID: A  
Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Analysis Type: METALS TAL ICP NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-38-2	ARSENIC	2.0		mg/Kg
7440-39-3	BARIUM	---	9.5U	mg/Kg
7440-41-7	BERYLLIUM	---	0.29U	mg/Kg
7440-70-2	CALCIUM	250		mg/Kg
7440-43-9	CADMIUM	0.43		mg/Kg
7440-48-4	COBALT	---	1.9U	mg/Kg
7440-47-3	CHROMIUM	0.58		mg/Kg
7440-50-8	COPPER	5.0		mg/Kg
7439-89-6	IRON	290		mg/Kg
7440-09-7	POTASSIUM	230		mg/Kg
7439-95-4	MAGNESIUM2852	---	48U	mg/Kg
7439-96-5	MANGANESE	3.7		mg/Kg
7440-23-5	SODIUM	3,600		mg/Kg
7440-02-0	NICKEL	---	1.9U	mg/Kg
7439-92-1	LEAD	4.1		mg/Kg
7440-36-0	ANTIMONY	---	1.9U	mg/Kg
7782-49-2	SELENIUM	---	1.9U	mg/Kg
7440-28-0	THALLIUM	---	1.9U	mg/Kg
7440-62-2	VANADIUM	---	1.9U	mg/Kg
7440-66-6	ZINC	510		mg/Kg

AM01661

Field/Station ID: B  
Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
	IGNITABILITY	---	150U	deg F
	FREE LIQUID	Positive		

## Analysis Type: METALS TCLP ICP TCLP EXTRACT

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-22-4	SILVER, TCLP	---	0.48U	mg/L
7440-38-2	ARSENIC, TCLP	1.5		mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 6 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01661

Field/Station ID: B

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: METALS TCLP ICP TCLP EXTRACT

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-39-3	BARIUM, TCLP	---	9.6U	mg/L
7440-43-9	CADMIUM, TCLP	---	0.28U	mg/L
7440-47-3	CHROMIUM, TCLP	0.93		mg/L
7439-92-1	LEAD, TCLP	---	0.77U	mg/L
7782-49-2	SELENIUM, TCLP	---	0.38U	mg/L

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
7439-97-6	MERCURY, TCLP	---	0.10U	mg/L

## Analysis Type: NVOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	---	100U	mg/L
106-46-7	1,4-DICHLOROBENZENE	---	100U	mg/L
95-48-7	2-METHYLPHENOL	---	100U	mg/L
13-19-77-3	3&; 4-METHYLPHENOL	2,100		mg/L
67-72-1	HEXACHLOROETHANE	---	100U	mg/L
98-95-3	NITROBENZENE	---	100U	mg/L
87-68-3	HEXACHLOROBUTADIENE	---	100U	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	100U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	100U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	100U	mg/L
118-74-1	HEXACHLOROBENZENE	---	100U	mg/L
87-86-5	PENTACHLOROPHENOL	---	100U	mg/L

## Analysis Type: VOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	9.7U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	9.7U	mg/L
78-93-3	2-BUTANONE	---	9.7U	mg/L
67-66-3	CHLOROFORM	---	9.7U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	9.7U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	9.7U	mg/L
71-43-2	BENZENE	130		mg/L
79-01-6	TRICHLOROETHENE	---	9.7U	mg/L
127-18-4	TETRACHLOROETHENE	---	9.7U	mg/L
108-90-7	CHLOROBENZENE	---	9.7U	mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 7 of 16





Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01661

Field/Station ID: B

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
62-75-9	N- NITROSODIMETHYLAMINE	---	480,000U	ug/Kg
108-95-2	PHENOL	2,800,000		ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	480,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	480,000U	ug/Kg
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	---	480,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	480,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	480,000U	ug/Kg
98-95-3	NITROBENZENE	---	480,000U	ug/Kg
78-59-1	ISOPHORONE	---	480,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	480,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	480,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	480,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	480,000U	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	480,000U	ug/Kg
91-20-3	NAPHTHALENE	2,300,000		ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	480,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	480,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	480,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	480,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	480,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	480,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	480,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	480,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	480,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	970,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	480,000U	ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	480,000U	ug/Kg
86-73-7	FLUORENE	---	480,000U	ug/Kg
84-66-2	DIETHYLPHTHALATE	---	480,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	480,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	480,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	480,000U	ug/Kg
103-33-3	DIAZENE,DIPHENYL	---	480,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	480,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	480,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	480,000U	ug/Kg
85-01-8	PHENANTHRENE	650,000		ug/Kg
120-12-7	ANTHRACENE	---	480,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 8 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01661

Field/Station ID: B

Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
84-74-2	DI-N-BUTYLPHthalate	---	480,000U	ug/Kg
206-44-0	FLUORANTHENE	---	480,000U J	ug/Kg
92-87-5	BENZIDINE	---	480,000U	ug/Kg
129-00-0	PYRENE	---	480,000U	ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	480,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	---	480,000U	ug/Kg
91-94-1	3,3'- DICHLOROBENZIDINE	---	480,000U	ug/Kg
218-01-9	CHRYSENE	---	480,000U	ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHthalate	---	480,000U	ug/Kg
117-84-0	DI-N-OCTYL PHthalate	---	480,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	---	480,000U	ug/Kg
207-08-9	BENZO(K)FLUORANTHENE	---	480,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	480,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	480,000U	ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	480,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	480,000U	ug/Kg
	2,6-DIMETHYLPYRIDINE	1,300,000		ug/Kg

## Analysis Type: VOA TCL GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	87,000U	ug/Kg
75-00-3	CHLOROETHANE	---	87,000U	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	87,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	87,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	87,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	87,000U	ug/Kg
67-66-3	CHLOROFORM	---	87,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	87,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	87,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	87,000U	ug/Kg
71-43-2	BENZENE	1,200,000	L	ug/Kg
79-01-6	TRICHLOROETHENE	---	87,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	87,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	87,000U L	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	87,000U L	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	87,000U L	ug/Kg
108-88-3	TOLUENE	710,000	L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	87,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 9 of 16





## Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01661

Field/Station ID: B

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: VOA TCL GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
127-18-4	TETRACHLOROETHENE	---	87,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	87,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	87,000U	ug/Kg
100-41-4	ETHYLBENZENE	130,000		ug/Kg
75-25-2	BROMOFORM	---	87,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	87,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	87,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	87,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	87,000U	ug/Kg
107-13-1	ACRYLONITRILE	---	87,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	87,000U	ug/Kg
74-83-9	BROMOMETHANE	---	87,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	87,000U	ug/Kg

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
7439-97-6	MERCURY	4.2		mg/Kg

## Analysis Type: PCBS GC TSCA OIL

CAS Number	Analyte Name	Result	Remark Codes	Units
12674-11-2	AROCLOR 1016	---	3.2U	mg/Kg
11104-28-2	AROCLOR 1221	---	6.4U	mg/Kg
11141-16-5	AROCLOR 1232	---	3.2U	mg/Kg
53469-21-9	AROCLOR 1242	---	3.2U	mg/Kg
12672-29-6	AROCLOR 1248	---	3.2U	mg/Kg
11097-69-1	AROCLOR 1254	---	3.2U	mg/Kg
11096-82-5	AROCLOR 1260	---	3.2U	mg/Kg
37324-23-5	AROCLOR 1262	---	3.2U	mg/Kg

## Analysis Type: METALS TAL ICP NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-22-4	SILVER	---	0.47U	mg/Kg
7429-90-5	ALUMINUM	24		mg/Kg
7440-38-2	ARSENIC	1.8		mg/Kg
7440-39-3	BARIUM	---	9.4U	mg/Kg
7440-41-7	BERYLLIUM	---	0.28U	mg/Kg
7440-70-2	CALCIUM	140		mg/Kg
7440-43-9	CADMIUM	---	0.28U	mg/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 10 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01661

Field/Station ID: B

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: METALS TAL ICP NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-48-4	COBALT	---	1.9U	mg/Kg
7440-47-3	CHROMIUM	---	0.47U	mg/Kg
7440-50-8	COPPER	2.8		mg/Kg
7439-89-6	IRON	180		mg/Kg
7440-09-7	POTASSIUM	240		mg/Kg
7439-95-4	MAGNESIUM2852	---	47U	mg/Kg
7439-96-5	MANGANESE	2.3		mg/Kg
7440-23-5	SODIUM	3,700		mg/Kg
7440-02-0	NICKEL	---	1.9U	mg/Kg
7439-92-1	LEAD	2.4		mg/Kg
7440-36-0	ANTIMONY	---	1.9U	mg/Kg
7782-49-2	SELENIUM	---	1.9U	mg/Kg
7440-28-0	THALLIUM	---	1.9U	mg/Kg
7440-62-2	VANADIUM	---	1.9U	mg/Kg
7440-66-6	ZINC	460		mg/Kg

AM01662

Field/Station ID: C

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
	IGNITABILITY	---	150U	deg F
	FREE LIQUID	Positive		

## Analysis Type: METALS TCLP ICP TCLP EXTRACT

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-22-4	SILVER, TCLP	---	0.48U	mg/L
7440-38-2	ARSENIC, TCLP	1.3		mg/L
7440-39-3	BARIUM, TCLP	---	9.6U	mg/L
7440-43-9	CADMIUM, TCLP	---	0.28U	mg/L
7440-47-3	CHROMIUM, TCLP	0.84		mg/L
7439-92-1	LEAD, TCLP	---	0.77U	mg/L
7782-49-2	SELENIUM, TCLP	---	0.37U	mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 11 of 16





## Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01662

Field/Station ID: C

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
7439-97-6	MERCURY, TCLP	---	0.10U J	mg/L

## Analysis Type: NVOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	---	100U	mg/L
106-46-7	1,4-DICHLOROBENZENE	---	100U	mg/L
95-48-7	2-METHYLPHENOL	---	100U	mg/L
13-19-77-3	3& 4-METHYLPHENOL	2,000		mg/L
67-72-1	HEXACHLOROETHANE	---	100U	mg/L
98-95-3	NITROBENZENE	---	100U	mg/L
87-68-3	HEXACHLOROBUTADIENE	---	100U	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	100U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	100U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	100U	mg/L
118-74-1	HEXACHLOROBENZENE	---	100U	mg/L
87-86-5	PENTACHLOROPHENOL	---	100U	mg/L

## Analysis Type: VOA GCMS TCLP

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	20U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	20U	mg/L
78-93-3	2-BUTANONE	---	20U	mg/L
67-66-3	CHLOROFORM	---	20U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	20U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	20U	mg/L
71-43-2	BENZENE	95		mg/L
79-01-6	TRICHLOROETHENE	---	20U	mg/L
127-18-4	TETRACHLOROETHENE	---	20U	mg/L
108-90-7	CHLOROBENZENE	---	20U	mg/L

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
62-75-9	N- NITROSODIMETHYLAMINE	---	480,000U	ug/Kg
108-95-2	PHENOL	2,900,000		ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	480,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	480,000U	ug/Kg
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	---	480,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	480,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 12 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01662

Field/Station ID: C

Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
67-72-1	HEXACHLOROETHANE	---	480,000U	ug/Kg
98-95-3	NITROBENZENE	---	480,000U	ug/Kg
78-59-1	ISOPHORONE	---	480,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	480,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	480,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	480,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	480,000U	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	480,000U	ug/Kg
91-20-3	NAPHTHALENE	2,300,000		ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	480,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	480,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	480,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	480,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	480,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	480,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	480,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	480,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	480,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	960,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	480,000U	ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	480,000U	ug/Kg
86-73-7	FLUORENE	---	480,000U	ug/Kg
84-66-2	DIETHYLPHTHALATE	---	480,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	480,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	480,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	480,000U	ug/Kg
103-33-3	DIAZENE,DIPHENYL	---	480,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	480,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	480,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	480,000U	ug/Kg
85-01-8	PHENANTHRENE	650,000		ug/Kg
120-12-7	ANTHRACENE	---	480,000U	ug/Kg
84-74-2	DI-N-BUTYLPHTHALATE	---	480,000U	ug/Kg
206-44-0	FLUORANTHENE	---	480,000U J	ug/Kg
92-87-5	BENZIDINE	---	480,000U	ug/Kg
129-00-0	PYRENE	---	480,000U	ug/Kg
85-68-7	BUTYLBENZYLPHTHALATE	---	480,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	---	480,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 13 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01662

Field/Station ID: C

Date Received: 5/11/2010

Matrix: Solvent

Sample Description:

## Analysis Type: NVOA NPDES GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
91-94-1	3,3'- DICHLOROBENZIDINE	---	480,000U	ug/Kg
218-01-9	CHRYSENE	---	480,000U	ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	480,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	480,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	---	480,000U	ug/Kg
207-08-9	BENZO(K)FLUORANTHENE	---	480,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	480,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	480,000U	ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	480,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	480,000U	ug/Kg
	2,6-DIMETHYLPYRIDINE	1,400,000		ug/Kg

## Analysis Type: VOA TCL GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	95,000U	ug/Kg
75-00-3	CHLOROETHANE	---	95,000U	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	95,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	95,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	95,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	95,000U	ug/Kg
67-66-3	CHLOROFORM	---	95,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	95,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	95,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	95,000U	ug/Kg
71-43-2	BENZENE	1,100,000	J	ug/Kg
79-01-6	TRICHLOROETHENE	---	95,000U	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	95,000U	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	95,000U	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	95,000U	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	95,000U	ug/Kg
108-88-3	TOLUENE	650,000	J	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	95,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	95,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	95,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	95,000U	ug/Kg
100-41-4	ETHYLBENZENE	130,000		ug/Kg
75-25-2	BROMOFORM	---	95,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	95,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 14 of 16





## Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01662 Field/Station ID: C  
Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Analysis Type: VOA TCL GCMS NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
541-73-1	1,3-DICHLOROBENZENE	---	95,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	95,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	95,000U	ug/Kg
107-13-1	ACRYLONITRILE	---	95,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	95,000U	ug/Kg
74-83-9	BROMOMETHANE	---	95,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	95,000U	ug/Kg

## Single Component Analyses

CAS Number	Analyte Name	Result	Remark Codes	Units
7439-97-6	MERCURY	4.3		mg/Kg

## Analysis Type: PCBS GC TSCA OIL

CAS Number	Analyte Name	Result	Remark Codes	Units
12674-11-2	AROCLOR 1016	---	3.2U	mg/Kg
11104-28-2	AROCLOR 1221	---	6.4U	mg/Kg
11141-16-5	AROCLOR 1232	---	3.2U	mg/Kg
53469-21-9	AROCLOR 1242	---	3.2U	mg/Kg
12672-29-6	AROCLOR 1248	---	3.2U	mg/Kg
11097-69-1	AROCLOR 1254	---	3.2U	mg/Kg
11096-82-5	AROCLOR 1260	---	3.2U	mg/Kg
37324-23-5	AROCLOR 1262	---	3.2U	mg/Kg

## Analysis Type: METALS TAL ICP NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
7440-22-4	SILVER	---	0.49U	mg/Kg
7429-90-5	ALUMINUM	21		mg/Kg
7440-38-2	ARSENIC	1.8		mg/Kg
7440-39-3	BARIUM	---	9.9U	mg/Kg
7440-41-7	BERYLLIUM	---	0.30U	mg/Kg
7440-70-2	CALCIUM	130		mg/Kg
7440-43-9	CADMIUM	---	0.30U	mg/Kg
7440-48-4	COBALT	---	2.0U	mg/Kg
7440-47-3	CHROMIUM	---	0.49U	mg/Kg
7440-50-8	COPPER	2.5		mg/Kg
7439-89-6	IRON	150		mg/Kg
7440-09-7	POTASSIUM	240		mg/Kg
7439-95-4	MAGNESIUM2852	---	49U	mg/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 15 of 16

U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: TONAWANDA COKE

Project Number: 10050022

\*Sorted By Sample ID

AM01662

Field/Station ID: C  
Matrix: Solvent

Date Received: 5/11/2010

Sample Description:

## Analysis Type: METALS TAL ICP NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
7439-96-5	MANGANESE	2.3		mg/Kg
7440-23-5	SODIUM	3,800		mg/Kg
7440-02-0	NICKEL	---	2.0U	mg/Kg
7439-92-1	LEAD	2.0		mg/Kg
7440-36-0	ANTIMONY	---	2.0U	mg/Kg
7782-49-2	SELENIUM	---	2.0U	mg/Kg
7440-28-0	THALLIUM	---	2.0U	mg/Kg
7440-62-2	VANADIUM	---	2.0U	mg/Kg
7440-66-6	ZINC	450		mg/Kg

Project Approval: \_\_\_\_\_

Date: 6-17-10

Refer to Page 1 for an explanation of Remark Codes

Report Date: 6/16/2010 9:56AM

Page 16 of 16